

## CLAIMS

1. A pigment dispersion composition  
which is prepared by dispersing a pigment using at  
5 least one species selected from the group consisting of a  
pigment derivative, pigment intermediate, colorant  
derivative and colorant intermediate each having a  
functional group reactive with a carbodiimide group and  
having adsorption ability on the pigment surface, and a  
10 carbodiimide compound containing at least one carbodiimide  
group.

2. The pigment dispersion composition according to  
Claim 1,

15 wherein the pigment is dispersed using a mixture  
comprising at least one species selected from the group  
consisting of said pigment derivative, pigment intermediate,  
colorant derivative and colorant intermediate, and said  
carbodiimide compound.

20 3. The pigment dispersion composition according to  
Claim 1,  
wherein the pigment is dispersed by using a

25 carbodiimide-based compound introduced with a side chain  
having pigment adsorption ability within the molecule by  
reacting at least one species selected from the group  
consisting of said pigment derivative, pigment intermediate,  
colorant derivative and colorant intermediate with said  
carbodiimide compound.

30 4. The pigment dispersion composition according to  
any one of Claims 1 to 3,  
wherein said carbodiimide compound contains, within

35 the molecule thereof, at least one side chain selected from  
the group consisting of a polyester side chain, polyether

side chain, polyether polyester side chain, and polyacrylic side chain.

5. The pigment dispersion composition according to  
any one of Claims 1 to 4,

wherein said carbodiimide compound has a carbodiimide equivalent of 100 to 50,000.

6. The pigment dispersion composition according to  
any one of Claims 1 to 5,

wherein the functional group reactive with a carbodiimide group contained in at least one species selected from the group consisting of said pigment derivative, pigment intermediate, colorant derivative and colorant intermediate is a carboxyl group, sulfonic acid group, or phosphoric acid group.

7. The pigment dispersion composition according to  
any one of Claims 1 to 6,

wherein said pigment intermediate is at least one species selected from the group consisting of a naphthoic acid and 2-carboxypyrazine, and said colorant intermediate is a colorant residue having a functional group reactive with a carbodiimide group.

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8. The pigment dispersion composition according to  
any one of Claims 1 to 6,

wherein said pigment is at least one pigment selected from the group consisting of a dye chelate pigment, azo pigment, benzimidazolone pigment, phthalocyanine pigment, quinacridone pigment, anthraquinone pigment, dioxazine pigment, indigo pigment, thioindigo pigment, perylene pigment, perinone pigment, diketopyrrolopyrrole pigment, isoindolinone pigment, nitro pigment, nitroso pigment, anthraquinone pigment, flavanthrone pigment, quinophthalone

pigment, pyranthrone pigment, indanthrone pigment, and said pigment derivative is a derivative of said pigment.

5        9. The pigment dispersion composition according to any one of Claims 1 to 6,

      which is prepared by dispersing at least one pigment selected from the group consisting of carbon black and a phthalocyanine pigment using a phthalocyanine pigment  
10      derivative having a functional group reactive with a carbodiimide group as said pigment derivative.

15      10. A pigment dispersion-based resist composition which contains the pigment dispersion composition according to any one of Claims 1 to 9.

11. A compound for pigment treatment  
      which is a carbodiimide-based compound introduced with a side chain having pigment adsorption ability within  
20      the molecule by reacting at least one species selected from the group consisting of a pigment derivative, pigment intermediate, colorant derivative and colorant intermediate each having a functional group reactive with a carbodiimide group and having adsorption ability on the pigment surface,  
25      and a carbodiimide compound containing at least one carbodiimide group.